

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 11 / 30 / 93 Loads: 01-02

Area Worked: Stations 215-189 199-08

Conditions: Winds NE 15-35 Knots, Seas 4-8, Water temp 60

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Observers aboard 1800, Digging begins at 0004

on 12-01-93. Ship is equipped with four inflow discharge
boxes, two overflow skimmers with lateral screening and
a TED on each dragarm. Water temps are taken from the Bean
tide gauge. When material enters the hopper most of it
will come through the aft inflow discharge boxes. The two
fore boxes are closed off but some material does come
through. Samples have been small in quantity and mainly
consist of wood.

Aerial survey reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 01 / 93 Loads: 03-09

Area Worked: Stations 140-215

Conditions: Overcast, Winds NE 20-35 knots, Seas 5-10, Water temp 59

Are there incidents involving endangered or protected species? Yes _____ No x

Comments: Fauna samples mainly consist of horseshoe crabs,
blue crabs, flounder and whelks. Port TED outside chains
broken. Will need some welding done. Material digging is
heavy silt and sand.

Aerial survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
<u>TT</u>	<u>3</u>	<u>Near buoy one</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 02 / 93

Loads: 10-16

Area Worked: Stations 215-140

Conditions: Overcast, Partly cloudy, Winds 10-20 Knots, Seas 2-7, H20 58

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Shackles and chains rewelded on Teds today, Star-
board side twice and port once.

Aerial survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 12 / 03 / 93

Loads: 17-24

Area Worked: Stations 240-215

Conditions: Partly cloudy, Winds NE 10-15 Knots, Seas 3-4, H2O 57

Are there incidents involving endangered or protected species? Yes No

Comments: Welded starboard Ted today to keep up with breaking shackels and chains.

New out flow discharge opening made to the starboard side today. This outflow pipe is not screened and may not be a applicable area to do so. This pipe opening is located on the starboard fore area right below the skimmer level. With the lack of overflow sampling apparatius this means sampling will be 100% inflow monitor method. The inflow screens should provide us with needed information if a turtle is taken.

Aerial Survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
<u>No whales or turtles sighted</u>		
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 04 / 93 Loads: 25-31

Area Worked: Stations 215-140

Conditions: Partly cloudy, Winds SE 5-15 Knots, Seas 1-3, Water temp 58

Are there incidents involving endangered or protected species? Yes No X

Comments: Aerial survey plane reports no sightings.

Replaced shackle on starboard TED.

Samples small in quantity, mainly consisting of
horseshoe crabs, whelks, pen-shell.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Mn</u>	<u>1</u>	<u>Ocean Sunfish</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 04 / 93

Loads: 25-31

Area Worked: Stations 215-140

Conditions: Partly cloudy, Winds SE 5-15 Knots, Seas 1-3, Water temp 58

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Aerial survey plane reports no sightings.

Replaced shackle on starboard TED.

Samples small in quantity, mainly consisting of
horseshoe crabs, whelks, pensshell.

Bridge Watch Summary

Species	No. of animals	Comments
Mn	1	Ocean Sunfish
No whales or turtles sighted		

Observer(s) On Duty: Eric Westerman, Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel, E. Maine

Maintenance Dredging 1993-94

Dredge EAGLE 1

DAILY REPORT

Page one

Date: 12 / 05 / 93 Loads: 32-37

Area Worked: Stations 215-140 -175 160-56 19-700

Conditions: Clear, cloudy, Winds variable 10-35 Knots, seas 1-4, H2O gauge 2

Are there incidents involving endangered or protected species? Yes No

Comments: Repairs continue on TEDs. Aerial survey reports no Sightings.

Right whale and unidentified whale sighted from dredge by observer. Whale spout was sighted 1.2 to 1.5 miles from the dredge, half mile SW of green buoy #3. Unable to identify species. This sighting was at 1310 on the way to the dump load 34. On the way back from the dump at 1503 a Right whale calf was sighted. The calf came up for four spouts. The animal was less than a quarter mile NE of the red buoy #2. No adult was seen with the calf while dredge was passing the area.

Continued Next page

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Eastern

Maintenance Dredging 1993-94

Dredge EAGLE 1

Page Two

DAILY REPORT

Date: 12 / 05 / 93

Loads: 32-37

Area Worked: _____

Conditions: _____

Are there incidents involving endangered or protected species? Yes No

Comments: Informed by the captain that he had called his
office and that the office called the COE and that the
specifications of the job had been changed. New specs are:
if a Right whale was sighted in five miles of the project
area vessel speed during the night would be 8-10 Knots.
Old specs are 5 knots at night if a Right whale is sighted
within 15 miles of project area. Observers had not been
informed of new specs until today. Dredge preceded tonight
with new specs between 8-10 knots at night.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1 calf</u>	<u>31-05-02 N 81-17-08-W</u>
<u>Unidentified</u>	<u>1 whale</u>	<u>31-05-79 N 81-19- 62-W 150 1.2-1.5 M</u>
<u>Unidentified whale probable mother to calf sighting. The animals</u>		
<u>would of moved approx 1 mile NW between 1310 and 1503 during the</u>		
<u>dump run.</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT
Page one

Date: 12 / 05 / 93 Loads: 32-37

Area Worked: Stations 215-140 -175 160-56 19-700

Conditions: Clear,cloudy, Winds variable 10-35 Knots, seas 1-4, H20 gauge NA

Are there incidents involving endangered or protected species? Yes X No

Comments: Repairs continue on TEDs. Aerial survey reports

no Sightings.

Right whale and unidentified whale sighted from
dredge by observer. Whale spout was sighted 1.2 to 1.5
miles from the dredge, half mile SW of green buoy #3.Un-
able to identify species. This sighting was at 1310 on
the way to the dump load 34. On the way back from the dump
at 1503 a Right whale calf was sighted. The calf came up
for four spouts. The animal was less than a quarter mile
NE of the red buoy #2. No adult was seen with the calf
while dredge was passing the area. Continued Next page

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
 Maintenance Dredging 1993-94
 Dredge EAGLF 1
 Page Two

DAILY REPORT

Date: 12 / 05 / 93 Loads: 32-37

Area Worked: _____

Conditions: _____

Are there incidents involving endangered or protected species? Yes X No _____

Comments: Informed by the captain that he had called his
office and that the office called the COE and that the
specifications of the job had been changed. New specs are
if a Right whale was sighted in five miles of the project
area vessel speed during the night would be 8-10 Knots.
Old specs are 5 knots at night if a Right whale is sighted
within 15 miles of project area. Observers had not been
informed of new specs until today. Dredge preceded tonight
with new specs between 8-10 knots at night.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1 calf</u>	<u>31-05-02 N 81-17-08-W</u>
<u>Unidentified</u>	<u>1 whale</u>	<u>31-05-79 N 81-19- 62-W 150 1.2-1.5 M</u>
<u>Unidentified whale probable mother to calf sighting. The animals</u>		
<u>would of moved approx 1 mile NW between 1310 and 1503 during the</u>		
<u>dump run.</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Harbor Entrance Chanel

Dredge EAGLE ONE/1993-94

121593

Load# 33 Start 0805 End 0856 Dump 0949

Location (lat/long) 215 1-0-177

Conditions clear, winds W 10-30 kts, sea = 4 Tide Flood

Port Draghead X TED: OK

Stbd Draghead X TED: Being repaired, used

Port Overflow mullet

Stbd Overflow X

Port Dis.-Fore X

Port Dis.- Aft wood, rock, trash

Stbd Dis.- Fore X

Stbd Dis.- Aft wood, trash

Comments: _____

Observer(s) On Duty: Gene Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Harbor Entrance Chanel
Dredge EAGLE ONE/1993-94

1215193

Load# 34 Start 11:09 End 1333 Dump 14:30

Location (lat/long) stations 19-700 ~ 191-20 57°-64°

Conditions clear, winds NW 25-31 Kts sea 2' 3' Tide ebb

Port Draghead φ TED: good

Stbd Draghead φ TED: good

Port Overflow φ

Stbd Overflow φ

Port Dis.-Fore φ

Port Dis.- Aft shrimp net, shells wood

Stbd Dis.- Fore

Stbd Dis.- Aft wood - loose line cable - shoe

Comments: Aerial survey photo reports to biologist 1950

Whale spout seen at 13:10 1.2 m from dredge bearing approx
150°. could not identify species.

31° 05.79
81° 19.62

15:03 saw what was most likely a calf within 1/4 m of dredge (just
NW of Red buoy #12), but no adult was seen at surface during
the time we were passing the area. No one else on the bridge has
seen this animal. Am not sure how to proceed. (The animal's) name
invoiced approx 1 m NW between 13:10 and 15:03. ROX

1503 THE STATED POSITION OF THE CALF was 1/4 m. NE of
#12 red (31° 05.2' N x 81° 17.8' W)

Observer(s) On Duty: W. Sherman

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 11 / 30 / 93 - 12 / 05 / 93 Loads: 01-37

Are there incidents involving endangered or protected species? Yes X No

Comments: Sampling method on the dredge will be 100% inflow
screening. TEDs have been repaired daily to keep in good
shape. Samples small in quantity, mainly consisting
of wood, horseshoe crabs, blue crabs, whelks, pen shell,
trash, shrimp and rock.

No turtles have been sighted this week. Two whales
were sighted this week. One Right whale calf, and one un-
identified adult. These whales were probably a cow calf
pair. Informed by the captain this week that the specif-
ications of the vessel speed had been changed if a Right
whale has been sighted in the project area. New specs are
if a Right whale is sighted within 5 miles of the project
area vessel speed at night will be 8-10 knots. Old specs
are 5 knots and a 15 mile project area.

Aerial survey plane had no sightings this week.
Material digging sand and silt and inside mud.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1</u>	<u>Right Whale calf</u>
<u>Unidentified</u> <u>Whale</u>	<u>1</u>	<u>Probable Right whale mother</u>
<u>Tt</u>	<u>3</u>	<u>Bottlenose dolphins</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observers On Duty:

Eric Westerman

Joe Ferris

Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 06 / 93 Loads: 38-46

Area Worked: Stations 21-500-14+302 20+960 205 215 146 21 203

Conditions: Partly cloudy, Winds Variable 5-12 Knots, Seas 1-2 H2O Gauge Down

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey plane reports no sightings. Samples
mainly consisting of whelks, wood, trash, horseshoe crabs,
shell.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>6</u>	<u>Bottlenose dolphins</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 07 / 93 Loads: 47-52

Area Worked: Stations 215-205 170-193 141-214 178-210 208 144

Conditions: Clear, Winds N 10-15 Knots, Seas 1-4, H2O Gauge down.

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Work continues on both TEDs. Crew has done a
excellent job in repairing endless broken chain and shackles
on TEDs.

Aerial survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>1</u>	<u>Bottlenose dolphin</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 08 / 93 Loads: 53-57

Area Worked: Stations 167-186 215-155 170-208 141 168-91 206-87 185 144

Conditions: Clear, Hazy, Winds Variable 5-15 Knots, Seas 1-4, H2O Gauge Down

Are there incidents involving endangered or protected species? Yes No x

Comments: Aerial survey plane reports no sightings. Samples
mainly clay, wood, trash, whelks and horseshoe crabs.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>1</u>	<u>Bottlenose dolphin</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 09 / 93 Loads: 58-62

Area Worked: Stations 163-65 346 388 164 207 145 160 167 141 143 145 152 75

Conditions: Partly cloudy, Winds light, Seas calm, H2O Gauge down

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Welding and repairing continues on both TEDs.

Aerial survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>1</u>	<u>Bottlenose dolphin</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 10 / 93 Loads: 63-67

Area Worked: Stations 164 145 191 79 160 170 144 242 389 340

Conditions: Hazy, Light rain, Winds variable 5-35 Knots, Seas 0-3, H2O 58

Are there incidents involving endangered or protected species? ^{Tide and H2O gauge}
^{Working again} Yes No X

Comments: Aerial survey reports no sightings. Area digging
inside mud and rock. Samples mainly rock, wood, clay, trash
and crab traps. Teds are being welded, shackled and wired
daily. Teds are also being damaged more digging inside
the rocky area.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>2</u>	<u>Bottlenose dolphins</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 11 / 93 Loads: 68-74

Area Worked: Stations 388 385 340 168 163 243 170 145 142 195 202 99 169 215

Conditions: Clear, Winds NW 15-30 Knots, Seas 2-5, H2O 58

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Aerial survey plane reports no sightings. Port
Ted repaired today. There has been alot of shrimp boats
trawling in the area this week, today thirteen boats.
Have also sighted numerous cannonball jellyfish in the
area this week.

Bridge Watch Summary

Species	No. of animals	Comments
No sightings of	any whales or	turtles

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 12 / 93 Loads: 75-81

Area Worked: Stations 388 338 340 382 160 200 170 356

Conditions: Clear, Winds Variable 5-30 Knots, Seas 2-5, H20 56

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey plane reports no sightings. Chains
on both TEDs wired today. Reported sighting to the McFarland
today of Right whale sighting. McFarland working Kings
Bay area south of our project zone.

Bridge Watch Summary

Species	No. of animals	Comments
<u>No whale or turtle sightings</u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 12 / 06 / 93 - 12 / 12 / 93 Loads: 38-81

Are there incidents involving endangered or protected species? Yes _____ No X

Comments: Inflow sampling system working out good. Dredge has been digging outside this week in a sand area and inside in a mud material area. When dredge has been digging inside samples have been large in quantities at times, mainly consisting of rock, clay and trash. When digging in outside in sand area samples have been small in quantity mainly consisting of wood, trash, whelks, horseshoe crabs, blue crabs and shell.

TEDs have required numerous repairs this week. Crew has done a good job in keeping up with repairs. Digging rocks on the inside area also seemed to accelerate the TEDs repairs. Padeyes were repaired, new shackles were replaced for worn down ones, chains were welded and re-wired to keep together and lead wires were repaired.

Aerial survey plane reported no sightings this week. Shrimping has been heavy in the area this week. Also noted this week numerous cannonball jellyfish in the area.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>11</u>	<u>Bottlenose dolphins</u>
<u>No whales or</u>	<u>turtles sighted</u>	<u>this week</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

Eric Westerman

Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 13 / 93 Loads: 82-90

Area Worked: 380 338 382 280 238 340 330 388 340

Conditions: Partly cloudy, Winds NE 10-15 Knots, Seas 2-4, H2O 55

Are there incidents involving endangered or protected species? Yes X No

Comments: Aerial survey plane reports 3 subadult Right whales
sighted at 1119. First sighting was at 31 15 00 N, 81 06 00 W
which whales moved 1 mile SE in half an hour. C.O.E aboard
cleared up misinformation about specifications that the
captian had recieved from his office about vessel speed
and project area distance if Right whale has been sighted.
Specs remain the same as in the original environmental
specs. If a Right whale is sighted in fifteen miles of
the project area ship will reduce its speed to 5 knots
sunrise to sunset. Ship preceded at 5 knots sunset to
sunrise.

Bridge Watch Summary

Species	No. of animals	Comments
<u>No whales or turtles sighted from the dredge today</u>		
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 12 / 15 / 93 Loads: 102-111

Area Worked: Stations 168 190 265 215 225

Conditions: Cloudy, Winds variable 5-30 knots, Seas 1-4, H2O 54-55

Are there incidents involving endangered or protected species? Yes No X

Comments: Aerial survey plane reports no sightings. Screening
system intacted and working fine. Samples mainly trash, wood
horseshoe crabs, blue crabs, whelks, clay and shell.

Bridge Watch Summary

Species	No. of animals	Comments
<u>No whales or turtles sighted today</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 16 / 93 Loads: 112-120

Area Worked: Stations 265 215 227

Conditions: Clear, Winds calm to W 20 knots, Seas 0-3, H20 53-55

Are there incidents involving endangered or protected species? Yes No

Comments: Observer sights Right whale at 1230 approximately
two miles ENE of sea buoy, 31 04 00 N, 81 13 05 W. Dredge
dumps load and returns to the digging area. On the next
dump run observer sights calf with the cow 1450. Whales
moving in a W direction, closer to the channel, approx
position 31 04 05 N, 81 15 02 W. On the next dump run
whales are not sighted again. Sunset to sunrise dredge
observes 5 knot vessel speed restriction.

At 1430 TEDs are removed from dragheads. C.O.E aboard
got word from his office for approval of removal of TEDs.
Aerial survey plane reports no sightings.

Bridge Watch Summary

Species	No. of animals	Comments
Eg	2	Cow/calf pair, Right whales
<u>Note, on first sighting at 1230 no calf was sighted. On the next</u> <u>dump run with a better sighting a calf was sighted with the whale.</u>		
<u>No turtles sighted today</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Harbor Entrance Chanel

Dredge EAGLE ONE/1993-94

12/16/93

904 252 1000

912
Office 652 5065

655-5065

Load# 115 Start 1053 End 1201 Dump 1239

Location (lat/long) 315.00 - 2655.00

Conditions clear, winds NW 11-15 knots seas 2-3 1/5 Tide Ebb

Port Draghead ✓ TED: okay

Stbd Draghead ✓ TED: okay (wiring shackles)

Port Overflow ✓

Stbd Overflow ✓

Port Dis.-Fore ✓

Port Dis.- Aft rope, horseshoe crabs, plastic

Stbd Dis.- Fore ✓

Stbd Dis.- Aft plastic horseshoe crabs

Comments: NO TURTLE INCIDENTS -

11:15 Aerial survey plane reports no sightings

(approx position 31° 04.1' N x 81° 13.5' W) probable night whale (true V shaped blow) sighted at 12:30. Called Chris - answering machine and left message. Whale was probably 2m - from dredge, about 1.5m ENE of sea buoy. Called Capt. and St. Simon's and gave coordinates to them.

▶ 14:50 saw 2 animals w/c - they are moving in a W. direction: closer to the channel: approx position 31° 04.5' N 81° 15.2' W

Observer(s) On Duty: REP

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Harbor Entrance Chanel

Dredge EAGLE ONE/1993-94

1216193

Load# 114 Start 0842 End 0947 Dump 1018

Location (lat/long) 265-275

Conditions clear, winds W 15-20 Kts, seas 2-3' H₂O Tide Flood

Port Draghead 0 TED: OK

Stbd Draghead 0 TED: OK

Port Overflow NA

Stbd Overflow NA

Port Dis.-Fore 0

Port Dis.- Aft Trash, wood

Stbd Dis.- Fore 0

Stbd Dis.- Aft white trash

Comments: mud, sand

Observer(s) On Duty: Gene A. [unclear]

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 17 / 93 Loads: 121-127

Area Worked: Stations 265 215

Conditions: Partly cloudy, Winds variable 5-10 Knots, Seas 1-3, H2O 54

Are there incidents involving endangered or protected species? Yes No

Comments: Unidentified whale sighted today. Two blows sighted

at 0835 at approximately 31 05 00 N, 81 17 00 W, on the
way to the dump. Whale sighted in proximity of dolphins
and feeding birds. On the return trip from the dump, from
a distance and into a glare a head bob was observed in
the same area at 0915. Ventral view sighted with numerous
throat grooves, white in color. Not able to 100% I.D.
species. Although whale in the rorqual group and 95% sure
whale was a juvenile Humpback.

Aerial survey plane reports no sightings. No rest-
riktion to vessel speed.

Bridge Watch Summary

Species	No. of animals	Comments
Unidentified whale	1	Probable Humpback
Tt	14	Bottlenose dolphins
No turtles sighted		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Harbor Entrance Chanel

Dredge EAGLE ONE/1993-94

12/17/93

Load# 121 Start 0613 End 0812 Dump 0850

Location (lat/long) 215-265

Conditions Partly cloudy. Wind N 8-12kts. Sea calm Tide Flood

Port Draghead 0 TED: NA

Stbd Draghead 0 TED: NA

Port Overflow NA

Stbd Overflow NA

Port Dis.-Fore 0

Port Dis.- Aft 0

Stbd Dis.- Fore 0

Stbd Dis.- Aft 1 1/2 shot crab

Comments: 1 TT on the way to the dump in the channel
835 2 blows unidentified whale
small in size, sighted near 3 dolphins
and birds feeding.
915 Head BOB, white throat ventral
probable juvenile humpback, glare
31° 05' 00" N 81° 17' 00" W

Observer(s) On Duty: one witness

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Harbor Entrance Channel

Dredge EAGLE ONE/1993-94

121793

Load# 122 Start 0927 End 1124 Dump 1201

Location (lat/long) 265.215

Conditions partly cloudy, winds NE 5-8 kt, seas 1 Tide Flood 53H.

Port Draghead large board TED: NA

Stbd Draghead ∅ TED: NA

Port Overflow NA

Stbd Overflow NA

Port Dis.-Fore ∅

Port Dis.- Aft ∅

Stbd Dis.- Fore ∅

Stbd Dis.- Aft ∅

Comments: 10 TT near cut area

Observer(s) On Duty:

dmw atestimon

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 18 / 93 Loads: 128-135

Area Worked: Stations 265 215 224

Conditions: Hazy, Winds calm to variable 10 knots, Seas calm, H2O 54-55

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey reports no sightings. Samples small
in quantity, mainly trash and debris.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>3</u>	<u>Bottlenose dolphins</u>
<u>spp</u>	<u>20</u>	<u>Spotted dolphins</u>
<u>No turtle or whales sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 12 / 19 / 93 Loads: 136-146

Area Worked: Stations 265 215 233 225 232 228 217 230 340 365 329

Conditions: Clear to cloudy, Winds variable 5-15 knots, Seas 0-3, H2O 54-55

Are there incidents involving endangered or protected species? Yes No X

Comments: Aerial survey plane reports no sightings in the
project area. Three Right whales were sighted south of
the project zone in the Kings Bay area.

Samples mainly trash, horseshoe crabs, whelks and
shell.

Bridge Watch Summary

Species	No. of animals	Comments
<u>No whales or turtles sighted</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM
 Brunswick Channel Entrance
 Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 12 / 13 / 93 - 12 / 19 / 93 Loads: 82-146

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey plane sighted three Right whales this week. All whales were sighted on 12/13/93. This sighting was a group of 3 subadult whales at 31 15 00 N, 81 06 00 W, inside the project area. Specifications of vessel speed and project area was cleared up with contractor this week. Specs are if Right whale is sighted in fifteen miles of project area dredge and crew boat will reduce its speed to 5 knots sunset to sunrise.

Observers aboard dredge sighted three whales this week. Cow/calf pair of Right whales were sighted on 12/16/93. On 12/17/93 an unidentified whale was sighted, most probable juvenile humpback. No turtles were sighted this week.

Teds were removed on 12/16/93 with approval from C.O.E office. Due to the constant repairs and no turtle incidents and no sightings of turtles and water temperature approval was given. Inflow screening system intact and working good. Two nights of slow vessel speed were observed this week due to Right whale in the project area.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>2</u>	<u>Right whales</u>
<u>Unidentified whale</u>	<u>1</u>	<u>Probable Humpback</u>
<u>Tt</u>	<u>17</u>	<u>Bottlenose dolphins</u>
<u>spp</u>	<u>20</u>	<u>Spotted dolphins</u>
<u>No turtle sighted</u>		

Observers On Duty:

Eric Westerman

Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 20 / 93 Loads: 147-152

Area Worked: Stations 160 232 239 215 143 142 340 265 162

Conditions: Hazy, rain, Winds variable 0-15 knots, Seas 0-3, H2O 54

Are there incidents involving endangered or protected species? Yes X No

Comments: Aerial survey plane sights Right whale near buoy
three at 1145. Whale also sighted by both observers and
four crew members. Whale juvenile in size, approx position
31 05 00 N, 81 18 09 W. Ship heading to the dump at the
time of sighting. On the return trip to the cut whale was
not sighted again. Dredge observed 5 knot vessel speed
from sunset to sunrise.

Note add on 12-22-93, lat and long given from mate on computer,
by chart I got 31 04 00 N, 81 18 00 W *low*

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1</u>	<u>Right whale</u>
<u>Tt</u>	<u>1</u>	<u>Bottlenose dolphins</u>
<u>No turtles sighted</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance

Maintenance Dredging 1993-94

Dredge EAGLE 1

DAILY REPORT

Date: 12 / 20 / 93 Loads: 147-152

Area Worked: Stations 160 232 239 215 143 142 340 265 162

Conditions: Hazy, rain, Winds variable 0-15 knots, Seas 0-3, H2O 54

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey plane sights Right whale near buoy

three at 1145. Whale also sighted by both observers and

four crew members. Whale juvenile in size, approx position

31 05 00 N, 81 18 09 W. Ship heading to the dump at the

time of sighting. On the return trip to the cut whale was

not sighted again. Dredge observed 5 knot vessel speed

from sunset to sunrise.

Bridge Watch Summary

Species	No. of animals	Comments
Eg	1	Right whale
Tt	1	Bottlenose dolphins
No turtles sighted		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 21 / 93 Loads: 153-158

Area Worked: Stations 402 340 400 215 200 201 309 145

Conditions: Clear to cloudy, Winds variable 10-30 knots, Seas 2-4, H2O 54

Are there incidents involving endangered or protected species? Yes No X

Comments: Aerial survey plane reports no sightings. Dredge
in sound most of the day for fuel.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>1</u>	<u>Bottlenose dolphin</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 22 / 93 Loads: 159-170

Area Worked: Stations 265 215 397 335 340 400 337 398

Conditions: Cloudy, Rain, Winds NW calm to 15 knots, Seas 0-3, H2O 53-54

Are there incidents involving endangered or protected species? Yes No

Comments: Aerial survey plane reports no sightings. Samples
mainly trash, horseshoe crabs, whelks, clams, wood and
rock. Digging in a mud material area.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>10</u>	<u>Bottlenose dolphins</u>
<u>No whales or turtles sighted</u>		

Observer(s) On Duty: Eric Westerman, Harriet Corbett

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 23 / 93

Loads: 171-178

Area Worked: STATIONS 173 140 215 212 178 265 216

Conditions: RAIN, CLOUDY, COLD, WINDY, VARIABLE N 3-20 KTS, 0-4', H₂O 52-54'

Are there incidents involving endangered or protected species? Yes No X

Comments: AERIAL SURVEY PLANE REPORTS NO SIGHTINGS. SAMPLES SPARSE

ROCK, WOOD, WHELKS, ROPE, CABLE, PIPE, SAND, PLASTIC, HOBBE SHOES CRABS

Bridge Watch Summary

Species	No. of animals	Comments
<u>T+</u>	<u>2</u>	<u>IN CHANNEL</u>
<u>NO WHALES OR TURTLES SIGHTED</u>		

Observer(s) On Duty: WESTERMANN, CORBETT, KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 12 / 24 / 93 Loads: 179 - 184

Area Worked: STATIONS: 2265 212 230 222 166 173 197

Conditions: OVERCAST AM, RAIN PM, WNW-NW 3-15KT, 40's, 2-3', H₂O 52

Are there incidents involving endangered or protected species? Yes No

Comments: AERIAL SURVEY TEAM REPORTS NO SIGHTINGS. (SAMPLE COLLECTED)
INCLUDES ROCK, WOOD, SAND, PLASTIC, ROPE, CRABS AND WHELKS.

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES SIGHTED</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: HARRIET CORBETT, ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 25 / 93

Loads: 185-189

Area Worked: STATIONS 265 215 190 228 173 245

Conditions: RAIN AM, 0800 CLEAR, 43°-44°, NW S-10 - W-NW 20, SEAS 2-4', H₂O 52

Are there incidents involving endangered or protected species? Yes No X

Comments: AERIAL SURVEY REPORTS NO SIGHTINGS. SAMPLE INCLUDES
MUD, ROCK, HORSESHOE CRABS, CLAY, ROPE, CLOTH, CABLE, WOOD, AND
SHELL.

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES</u>	<u>OR</u>	<u>SIGHTED</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: HARRIET CORBETT, ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 26 / 93 Loads: 190-198

Area Worked: STATIONS 380 342 400 390 265 174 206 227

Conditions: CLEAR, 40%, W 8-20 KTS, SEA 1-3', H₂O 49°-50°

Are there incidents involving endangered or protected species? Yes No

Comments: AERIAL SURVEY REPORTS NO RIB-T WHALES. SAMPLE INCLUDES
ROCK, MUD, CABLE, PLASTIC, FISHING NET, SHELL, ROPE, WOOD, HERMIT CRAB

JUVENILE
0835 - HUMPBACK WHALE (MEGAPTERA NOVEBORACHE) SPOTTED 1/2-1/2 M
SE 03 BUOY 1A. SPENT NEXT HOUR IN AND AROUND THE CHANNEL.
LAST SEEN 1-2 M N OF BUOY 2A. FIRST SIGHTING 31°04.5 N
AND 81°17.2 W. LAST SIGHTING APPROX ⁰⁹³⁰ 31°07.5 N, AND 81°17.0 W.
1222 - SPOTTED AGAIN S OF CHANNEL APPROX. LOCAL 31°03.9 N
81°15.2 W. ANIMAL LIGHT IV COLOR AND THIN.

Bridge Watch Summary

Species	No. of animals	Comments
<u>T+</u>	<u>5</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>Mn</u>	<u>1</u>	<u>JUV. HUMPBACK WHALE</u>

Observer(s) On Duty: HARRIET CURBETT ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 12 / 20 / 93 - 12 / 26 / 93 Loads: 147-198

Are there incidents involving endangered or protected species? Yes X No

Comments: AERIAL SURVEY TEAM SIGHTED ONE JUVENILE RIGHT WHALE THIS WEEK.

THE WHALE WAS SIGHTED ON 12/20 AT 1145 NEAR BUOY "G3", APPROX.
POSITION 31°05' N BY 81°18.09' W. WHALE THEN SIGHTED BY BOTH OBSERVERS
AND FOUR CREW AS EAGLE WAS HEADING TO THE DUMP. UPON RETURNING TO THE
CHANNEL THE WHALE WAS NOT SIGHTED AGAIN. BOW WATCH KEPT FROM 12-7 AM.

ONBOARD OBSERVERS FOUND ONE JUVENILE HUMPBACK WHALE ON 12/26.
THE WHALE WAS FIRST SPOTTED AT 0835 APPROX. 1/2 - 1/2 MILE SE OF
BUOY "2A" OR 31°04.5' N BY 81°17' W. FOUR TO FIVE BOTTLENOSE DOLPHIN,
A SHRIMP BOAT, AND MANY SEABIRDS IN ASSOCIATION. AT 0930 HAD MOVED
ACROSS THE CHANNEL 1-2 MILES N OF BUOY 2A OR 31°07.5' N BY
81°17' W. WHALE AGAIN RESIGHTED LATER AT 1222 SOF THE CHANNEL
AT 31°03.9' N BY 81°15.2' W. ANIMAL WAS LIGHT IN COLOR, THIN, WITH
A LONG PRONOUNCED DORSAL.

NOTE! BOTH SIGHTINGS WITHIN 1/2 - 3/4 MILE OF SHIP AND CHANNEL.

TED SAMPLE INCLUDES SPARSE AMOUNT OF ROCK, CABLE, PLASTIC, SHELL,
FISH NET, ROPE, WOOD, HERMIT CRABS, WHELKS, CLAMS, TRASH, PIPE, CLAY,
AND CLOTH. 12/21 SPENT IN SOUND REFUELING.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1</u>	<u>SMALLER OR JUVENILE RIGHT WHALE</u>
<u>Mh</u>	<u>1</u>	<u>JUV. Humpback WHALE</u>
<u>T+</u>	<u>19</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO SEA TURTLE INCIDENTS</u>		

Observers On Duty:

HARRIET CORBETT
ZACK KLYVEIK
ERIC WESTERMANN

ENDANGERED SPECIES OBSERVER PROGRAM
 Brunswick Channel Entrance
 Maintenance Dredging 1993-94

12/23-12/26?

WEEKLY SUMMARY

Dates: 12 / 20 / 93 - 12 / 26 / 93

Loads: 147-198

Are there incidents involving endangered or protected species? Yes X No

Comments: AERIAL SURVEY TEAM SIGHTED ONE JUVENILE RIGHT WHALE THIS WEEK.

THE WHALE WAS SIGHTED ON 12/20 AT 1145 NEAR BUOY "G3", APPROX.

POSITION 31°05' N BY 81°18.09' W. WHALE THEN SIGHTED BY BOTH OBSERVERS

AND FOUR CREW AS EAGLE WAS HEADING TO THE DUMP. UPON RETURNING TO THE

CHANNEL THE WHALE WAS NOT SIGHTED AGAIN. BOW WATCH KEPT FROM 12-7 AM

ONBOARD OBSERVERS FOUND ONE JUVENILE HUMPBACK WHALE ON 12/26.

THE WHALE WAS FIRST SPOTTED AT 0835 APPROX. 1/2 - 1/2 MILE SE OF

BUOY "2A" OR 31°04.5' N BY 81°17' W. FOUR TO FIVE BOTTLENOSE DOLPHIN

A SHRIMP BOAT, AND MANY SEABIRDS IN ASSOCIATION AT 0930 HAD MOVED

ACROSS THE CHANNEL 1-2 MILES N OF BUOY 2A OR 31°07.5' N BY

81°17' W. WHALE AGAIN RESIGHTED LATER AT 1222 SOF THE CHANNEL

AT 31°03.9' N BY 81°15.2' W. ANIMAL WAS LIGHT IN COLOR, THIN, WITH

A LONG PRONOUNCED DORSAL.

NOTE! BOTH SIGHTINGS WITHIN 1/2 - 3/4 MILE OF SHIP AND CHANNEL.

TED SAMPLE INCLUDES SPARSE AMOUNT OF ROCK, CABLE, PLASTIC, SHELL,

FISH NET, ROPE, WOOD, HERMIT CRABS, WHELKS, CLAMS, TRASH, PIPE, CLAY,

AND CLOTH. 12/21 SPENT IN SOUND REFUELING.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>1</u>	<u>SMALLER OR JUVENILE RIGHT WHALE</u>
<u>Mh</u>	<u>1</u>	<u>JUV. Humpback WHALE</u>
<u>T+</u>	<u>19</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO SEA TURTLE INCIDENTS</u>		

Observers On Duty:

HARRIET CURBETT

ZACK KLYVER

ERIC WESTERMANN

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 12 / 27 / 93 Loads: 199 - 205

Area Worked: STATIONS 340-265-255-215-390

Conditions: CLEAR, SUNNY, HIGH 40's, FULL MOON, W-SW 3-10K, SEA 1', H₂O 49°-50°

Are there incidents involving endangered or protected species? Yes No

Comments: AERIAL SURVEY REPORTED NO WHALE SIGHTINGS. SAMPLE
TAKEN IN TURTLE SCREENS INCLUDES MUD, ROCK, WOOD, PLASTIC, RUPE
HERMIT CRAB SHELL, WHELKS. 1200 - 23 SHRIMP BOATS IN CHANNEL
AND UP TO 5+ M E OF CHANNEL.

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES SIGHTED</u>		
<u>T+</u>	<u>39</u>	<u>Bottlenose dolphin</u>

Observer(s) On Duty: HARRIET CORBETT, ZACK KUYER

ENDANGERED SPECIES OBSERVER PROGRAM
 Brunswick Channel Entrance
 Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 12 / 27 / 93 - 01 / 02 / 94 Loads: 199-247

Are there incidents involving endangered or protected species? Yes X No

Comments:

(CONT) AND WHELKS. THE DECK CREW FIXED A BROKEN HINGE ON THE TOP DOOR
OF THE 5733 AFT CABE AFTER LOAD 214 OF 12/29. THE DECK CREW AGAIN
FIXED A HINGE ON THE TOP DOOR OF THE PORT AFT CABE ON 1/2.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 28 / 93

Loads: 206-212

Area Worked: STATIONS 340 265

Conditions: CLEAR, CALM, WIND, 60's, NO WIND OR SEA, H₂O 49-50°

Are there incidents involving endangered or protected species? Yes X No

Comments: (1) RIGHT WHALE SPOTTED 3-4 MILES SE OF BUOY R3 AT 0800 MOVING NW WHILE MAKING SHORT 3-4 MINUTE DIVES. BY 0830 HAD MOVED TO APPROX. 2 1/2 MILES S OF EAGLE AND CHANNEL. LOCAL 31°03'N x 81°19.5' W UNTIL LAST SIGHTING AT 0952. RE-SIGHTED AT 1220 AT APPROX. 31°01.5' N x 81°20.5' W. LAST SEEN AT SUNSET 60 YARDS FROM THE CHANNEL AND BUOY #5. BOWWATCH KEPT (12-7AM) AERIAL SURVEY REPORTS MOTHER/CALF PAIR WITHIN AREA AT 30°49.7'N x 81°09.2'W. MATE CALLED COAST GUARD AT 0830 AND SLOWED EAGLE TO 5 KNOTS AT NIGHT. WHALE WATCH KEPT ON BOW AS MOON 95% FULL. TED SAMPLE INCLUDES MUD, ROCK, WOOD, PLASTIC, ROPE, SHELL.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>3</u>	<u>RIGHT WHALE</u>
<u>T+</u>	<u>50</u>	<u>BOTTLENOSE DOLPHIN</u>

Observer(s) On Duty: HARRIET CORDETT, ZACK KLYVER

Maintenance Director
Oregon State

DATE

Date: 12 / 28 / 78 Log No: 206-212

Area Worked: STATIONS 510 205

Conditions: CLEAR, CALM, NO WIND OR SEA, N, 0 49-50°

Are there incidents involving endangered or protected species? Yes X No

Comments: (1) RIGHT WHALE SPOTTED 3-4 MILES SE OF BUOY R3 AT 0800 MOVING NWA WHILE MAKING SHORTER-5 MINUTE DIVES. BY 0830 HAD MOVED TO APPROX. 2 1/2 MILES S OF EAGLE AND CHANNEL. LOCAL 31°03'N x 81°19.5'W UNTIL LAST SIGHTING AT 0855. RESIGHTED AT 1220 AT APPROX. 31°01.5'N x 81°20.2'W. LAST SEEN AT SUNSET CLOSE TO THE CHANNEL AND BUOY R3.

AERIAL SURVEY REPORTS MOTHER/CALF PAIR WITHIN AREA AT 30°49.7'N x 81°09.2'W. MATE CALLED COAST GUARD AT 0830 AND SLOWED EAGLE TO 5 KNOTS AT NIGHT. WHALE WATCH KEPT ON BUW AS MOON 95% FULL.

TED SAMPLE INCLUDES MUD, ROCK, WOOD, PLASTIC, ROPE, SHELL

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>3</u>	<u>RIGHT WHALE</u>
<u>Tt</u>	<u>50</u>	<u>BOTTLENOSE DOLPHIN</u>

Observer(s) On Duty: HARRIET CORBETT ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 29 / 93

Loads: 213 - 222

Area Worked: STATIONS 340-265

Conditions: PARTLY CLOUDY SOME SUN AND RAIN 54-62°, WIND S 3-5 AM, NW 12 PM, SEA 1-2' DAY 2-4' NIGHT, AM FOG/HAZE VIS. > 1M, H₂O 51-52°

Are there incidents involving endangered or protected species? Yes X No

Comments: AT 1528 AUCIAL SURVEY PLANE REPORTS 6 EG AT POSITION 30° 45.3 N X 81° 14.6 W. THIS POSITION IS 2 TENTHS OF A MILE OUTSIDE THE DUMP AREA RECTANGLE, SO DID NOT AFFECT THE SPEED OF THE EAGLE 7 AT NIGHT.

DECK CREW FIXED A BROKEN HINGE ON TOP DOOR OF STD. AFT. CABE AFTER LOAD 214 DUMPED AT END OF LOAD 215 FRONT OF PORT TED CLEANED OF ROPE BAGS, AND CRAB TRAP WIRE. SAMPLE SPARSE BUT INCLUDING ROCK, WOOD, RUBBER PLASTIC, WHEELS, AND HORSE SHOE CRABS.

Bridge Watch Summary

Species	No. of animals	Comments
* <u>EG</u>	<u>6</u>	<u>RIGHT WHALE (JUST OUTSIDE 15 MILE ZONE - SHIP MAINTAINS NORMAL SPEED)</u>
<u>TH</u>	<u>8-40</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO INCIDENTS INVOLVING TURTLES</u>		

Observer(s) On Duty: HARRIET CORBETT, ZACK KENNEDY

ENDANGERED SPECIES OBSERVE PROGRAM

Barnegat Channel Entrance
 Maintenance Dredging 1993-94
 Dredge EAGLE 1

DAILY REPORT

Date: 12 / 29 / 93

Loads: 213 - 222

Area Worked: STATIONS 340-265

Conditions: PARTLY CLOUDY, SOME SUN AND RAIN, 5100Z, WIND S 3-5 AM, NW 12 P.
 SEA 1-2' DAY, 2-4' NIGHT, MODERATE VIS. 7.1M, H₂O 51°-52°

Are there incidents involving endangered or protected species? Yes X No

Comments: AT 1528 AERIAL SURVEY PLANE REPORTS 6 Eg at position
 30° 45.3 N X 81° 14.6 W. THIS POSITION IS 2 TENTHS OF A MILE
 OUTSIDE THE DUMP AREA RECTANGLE, SO DID NOT EFFECT THE SPEED
 OF THE EAGLE 1 AT NIGHT.

DECK CREW FIXED A BROKEN HINGE ON TOP DOOR OF STD.
 AFT TED AFTER LOAD 214 DUMPED. AT END OF LOAD 215
 FRONT OF PORT TED CLEANED OF ROPE, RAGS, AND CRAB TRAP
 WIRE. SAMPLE SPARSE BUT INCLUDING ROCK, WOOD, ROPE, PLASTIC,
 WHELKS, AND HORSESHOE CRABS.

Bridge Watch Summary

Species	No. of animals	Comments
* <u>Eg</u>	<u>6</u>	<u>RIGHT WHALES* JUST OUTSIDE 15 MILE LINE 2 SHIP MAINTAINS NORMAL SPEED</u>
<u>Th</u>	<u>8-40</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO INCIDENTS INVOLVING TURTLES</u>		

Observer(s) On Duty: HARRIET CORBETT, ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 30 / 93

Loads: 223-224

Area Worked: STATIONS 265-340

Conditions: PARTLY CLOUDY, 44°-54° NW 5-20, 0'-5' SEA, H₂O 50°

Are there incidents involving endangered or protected species? Yes No

Comments: ANCHORED FOR MOST OF THE DAY INSIDE ST. SIMONS SOUND

FOR REPAIRS AND REFUELING. NO WHALES SEEN AT NIGHT TO

AND FROM DREDGE. TED MATERIAL COLLECTED INCLUDED

MUD, WHELKS, WIRE, WOOD AND CRABS. MATE AND DRAG-

TENDERS FLUSHED OUT SOME DEBRIS FROM MATE CAGES BEFORE

LOAD 224.

AERIAL SURVEY REPORT: NO WHALES

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES</u>	<u>SIGHTED</u>	

Observer(s) On Duty: HARRILT CORBETT, ZACK KETNER

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLF 1

DAILY REPORT

Date: 12 / 31 / 94 Loads: 225-229

Area Worked: STATIONS 340-265 340-267-306 340-265-310

Conditions: OVERCAST-SUN, 50°-60°, VARIABLE N 6-15 KT, SEA 2-5', H₂O 50°

Are there incidents involving endangered or protected species? Yes No

Comments: DIGGING IN MUD MATERIAL CONTINUES. SAMPLE INCLUDES
ROCK, WOOD, WHELK AND HERMIT CRAB SHELLS, PLASTIC.

AERIAL SURVEY REPORTS NO SIGHTINGS.

Bridge Watch Summary

Species	No. of animals	Comments
<u>T+</u>	<u>2</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO WHALES OR TURTLES SIGHTED</u>		

Observer(s) On Duty: HARRIET CORBETT, ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM

Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 01 / 01 / 94 Loads: 230-239

Area Worked: STATIONS 340-265 (320-265-284-312)

Conditions: CLOUDY, RAIN, 50%, N→SE→NE 3-15KTS 2-6', H₂O 49°-50°

Are there incidents involving endangered or protected species? Yes No X

Comments: AERIAL SURVEY TEAM REPORTS NO SIGHTINGS. SAMPLE COLLECTED
INCLUDES SHELL, WOOD, PLASTIC, CRABS, WHELKS AND RUBBER ROOT. DIGGING
IN MUD MATERIAL.

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES SIGHTED</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: HARRIET CORBETT, ZACK KLYVER

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 01 / 02 / 94

Loads: 240-247

Area Worked: STATIONS: 265 - 340

Conditions: CLOUDY AM, CLEARING TO SUN; 54°-63°, N 3-10KT, SEA 1-4', H₂O 50°-51°

Are there incidents involving endangered or protected species? Yes No

Comments: AERIAL SURVEY REPORTS NO WHALE SIGHTINGS. DIGGING IN MUD
MATERIALS SPARGE SAMPLE TAKEN IN ^{CAGES} TEDS INCLUDES PLASTIC, HERMIT
CRABS, WHELKS, AND WOODEN DEBRIS. LOAD #241 DECK CREW
FIXED HINGE ON TOP DOOR OF PORT AFT BOX.

Bridge Watch Summary

Species	No. of animals	Comments
<u>NO WHALES OR TURTLES SIGHTED</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: ZACK KLYVER, PETER DULEY

ENDANGERED SPECIES OBSERVER PROGRAM
 Brunswick Channel Entrance
 Maintenance Dredging 1993-94

WEEKLY SUMMARY

Dates: 12 / 27 / 93 - 01 / 02 / 94 Loads: 199-247

Are there incidents involving endangered or protected species? Yes X No

Comments (1) THE AERIAL SURVEY REPORTED 8 RIGHT WHALES THIS WEEK. A MOTHER AND CALF PAIR WERE FOUND AT 30°49.7 N BY 81°09.2 W ON 12/28. THE FOLLOWING DAY 12/29, AT 1528 THE TEAM FINDS 6 RIGHTS AT 30°45.3 N BY 81°14.6 W. THIS POSITION WAS 2/10 OF A MILE OUTSIDE OUR 15 MILE DUMP AREA RECTANGLE SO IT DID NOT EFFECT THE SPEED OF THE EAGLE 1 AT NIGHT.

(2) ONBOARD OBSERVERS SIGHTED A RIGHT WHALE ON 12/28 AT 0800 3-4 MILES SOUTHEAST OF BUOY R3. THE WHALE WAS MAKING SHORT DIVES OF 3-4 MINUTES AND MOVING NW. BY 0830 THE WHALE HAD MOVED TO 2 1/2 MILES SOUTH OF THE EAGLE 1 AND THE CHANNEL WHERE IT REMAINED UNTIL LAST SEEN AT 0855. A SHRIMP BOAT NEAR THE WHALE WAS USED TO GAIN AN ACCURATE DISTANCE AND POSITION, APPROX. 31°03 N BY 81°19.5 W. THE WHALE WAS RESIGHTED AT 1222 31°15 N X 81°20.5 W MOVING SW AT THE SURFACE. BY 1650 THE WHALE HAD MOVED TO 1.5 MILES SOUTHWEST OF "G3" AND LAST SEEN AT SUNSET 60 YARDS FROM BUOY #5. A BOUWATCH WAS KEPT WHEN GOING TO AND FROM THE DUMP BETWEEN 12-7 AM.

(3) SIX DAYS OF DREDGING THIS WEEK IN MUD MATERIAL RESULTED IN NO SEA TURTLE TAKES. MATERIAL CLEANED FROM THE INFLOW SCREENING INCLUDED A VARIETY OF TRASH ITEMS, ROPE, PLASTIC, FISHING NETS, ETC., AND ROCK, WOOD, HERMIT CRABS.

(CONT)

Bridge Watch Summary

Species	No. of animals	Comments
<u>Eg</u>	<u>9*</u>	<u>RIGHT WHALE</u>
<u>T+</u>	<u>99-139</u>	<u>BOTTLENOSE DOLPHIN</u>
<u>NO SEA TURTLES SIGHTED</u>		

Observers On Duty:
ZACK KLYVER
HARRIET CORBETT
PETER DULEY

* INCLUDES 6 RIGHTS SEEN 12/29 2/10 OF MILE OUTSIDE BRUNSWICK ZONE OF 15 MILES FROM THE SOUTHEAST CORNER OF THE DUMP.

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging - 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 1 / 3 / 94 Loads: 248-252

Area Worked: 340 - (265, 285, 245, 247, 292, 312)

Conditions: CLOUDS → FOG → CLEARING, 50%, AM N 3-7KT → SW 30KT, 2-4', H₂O 51°-52°

Are there incidents involving endangered or protected species? Yes No X

Comments: FOG SETTING IN BY 0900. BY 1030, THICK FOG RESULTING
IN ZERO TO 1/4 MILE VISIBILITY 1730. AERIAL SURVEY DID NOT
FLY BECAUSE OF THICK FOG. FRONT FROM SOUTH MOVED THROUGH
AT 1900.

NO TURTLES FOUND IN INFLOW SCREENING. SAMPLE DID INCLUDE
SHELL, WOOD, METAL, TRASH, PLASTIC, AND WHEELS

Bridge Watch Summary

Species	No. of animals	Comments
<u>BT</u>	<u>1</u>	<u>Bottlenose Dolphin</u>
<u>No Whales or Turtles sighted</u>		

Observer(s) On Duty: KLYVER, DUBEY

ENDANGERED SPECIES OBSERVER PROGRAM
Brunswick Channel Entrance
Maintenance Dredging 1993-94
Dredge EAGLE 1

DAILY REPORT

Date: 1 / 4 / 94 Loads: 253 - 254

Area Worked: STATIONS 340 - 265

Conditions: 50°, MOSTLY CLOUDY, W-SW 30-35 KT, 2-5', H₂O 5.1° - POOR SIGHT. COND

Are there incidents involving endangered or protected species? Yes No

Comments: AERIAL SURVEY - DID NOT FLY DUE TO HIGH WINDS.

MATERIAL INCLUDES TRASH, SHELLS, HORSESHOE CRABS. NO INCIDENTS
LAST LOAD DUMPED AT 1803 HEADING TO MOREHEAD CITY BY 1820

Bridge Watch Summary

Species	No. of animals	Comments
<u>No. WHALE OR TURTLE SIGHTINGS</u>		

Observer(s) On Duty: PETER DULEY, ZACK KETNER

NAT

Chris Sly @ Fernandina

(904) 2774831 (try this # first)

OFFICE 904 652-5063

CONST GUARD #

638-3319

St Simons

(904) 261-0893

Brunswick Harbor Eagle ONE

11-30-93, ERIC Westerman, Joe Ferris aboard at 1800, crew putting on Port TED. Aerial survey reports no sightings. Trawler reports one unidentified sea turtle capture in 39 Trawls. Ship heads out to start job at 0004 first cut on 12-1-93, EW 12-1-93 ship equipped with four inflow discharge boxes, and two overflow boxes. Overflow boxes screened laterally. Talked to Tray C.O.E. inspector about improvements.

So far fauna samples small in quantity mainly consisting of Horseshoe crabs & sand. Bad weather today winds 25-35 kts, seas 7-10' making repairs to Port dragum teeth. EW Aerial survey report no sightings, EW

12-2-93, starboard TED welded. EW welding on port TED as well.

Aerial survey reported in with no sightings. 12-3-93 Aerial survey plane reports no sightings 11:20 halfway, will call again if anything sighted. EW

N

12/3
(continued)

There is a new discharge (out flow) part opened recently. This along with the lack of sampling apparatus/structure on the overflow area means that we are only sampling the info to the hopper. This should be noted in weekly summary. Personal note: Increasing screening may not improve our sample. The inflow screens should provide us with needed information when ^(if) a turtle is taken. However, the inflow/outflow and screening needs to be described in a weekly. JF.

Discussed with Captain communication with/between observers and a mate on duty. Will continue not to carry on conversations with mate and dragtender during dredging. ~~we're~~ ^{we're} permitted to talk with them during transit and to request access to log sheet for start/end/dump/location info. Suggested that we copy this data ^{after} every two or three loads. JF

Trey (COE rep.) informed me that he's received an "OK" for vessels to cruise at greater than 5 knots when there is no aerial survey and the vessel has to travel at slow bell at night. But/However/Yet this applies to situations only when no whale has been reported on a previous day's survey(s). Maximum speed will be that (cont)

12/3
(continued)

which allows the more safe steering (generally won't be above eight knots). Any questions ask Trey or rep.
12-4-93 change shackle starboard TED. ^{rep.} ^{EW}
11:11 Aerial survey. Marc reports
no sightings EW

Talked with Trey about the new discharge opening at front of ship (starboard side of hold). The captain offered to put a screen (enclose the opening with) over the discharge. We both questioned the usefulness of it. ~~All~~ All it's going to do is drop "things" back into the hopper and if anything gets caught on it, it'll be nearly impossible to get at. (And ^{it's} sure in hell too dangerous to try and retrieve anything) Also, it would be like the other overflow screening, not giving us any sample. So it was decided at this time not to screen the discharge and wait for advisement from fisheries. ^{TF}

12-5-93 Joe Ferris off 0930, replace
by roxy corbett. Aerial survey Marc
report no sightings 1050 EW
work on TED's twice this morning,
moved inside section digging mud. EW

At 13:10 A whale spout was spotted by me approximately 1.2-1.5 m from the dredge. estimated to be 1/2 miles SW of green buoy #3. F was

unable to identify the species. We proceeded to the dump, and on the way back at 1503 I saw 4 calf spouts and a small amount of back. The animal was less than $\frac{1}{4}$ m NE of the red #2 buoy. POX
- Chris Gray was telephoned: the captain called his boss and the Coast guard. Captain informed the mate that the dredge was not to exceed 10 knots. (This is 5k faster than stated slow speed for Right Whales in the vicinity) 120A

23:30. NO INCIDENTS ON #35, #36 - POX

12-6-93 Aerial survey reports no sightings EW

11:55 Survey plane called: no sightings.

12-7-93 whale survey plane reports no sightings. Loads 47-48 welding on starboard TED. EW
- some work done on port TED in afternoon - will resume digging in inside channel.

12-8-93 1039 whale survey plane report no sightings. EW

12-9-93

1138 Aerial Survey reports no sighting. Welding

done on both TEDS

Rox

12-10-93

Tide Gauge working again. Numerous shrimp boats in the area all this week. Aerial survey. Reports no sightings. EW

- Starboard gate on Aft discharge bending slightly from heavy rocks.

12-11-93 whale survey plane

reports no sightings. Port

TED repaired.

12-12-93 whale survey plane reports no sightings. EW

- mentioned specs (as regards turtles, manatees and whales at fire drill). Talked about procedure when whales and manatees are sighted and # of turtles that can be taken.

load #80 - cutting up inside the Sound once again.

- shackles on both TEDS wired this afternoon

12-13-93. Repaired inflow starboard cargo door, was not closing all the way.

- 3 subadult Right whales sighted by survey plane at 11:19. position:

31° 15.00 N 81° 06.00 W - which (whales moved SE 1 mile in 1/2 an hour)

is within 15 miles of operating area of dredge Eagle-I. They has informed the capt. that the vessel must slow down to 5 knots tonight - ROT
▷ Captain wants observers on bridge at all times during night watch.

We have been doing 5 knots to and from the dumps, with observer and dragtender watching ahead with binoculars. NB: 5 knots is 5 knots over ground

▷ pilot escorting small ship out of Brunswick (21:30) asked mate for position on whales, presumably to keep a lookout or possibly move at slow speed until well off the coast. (PILOT #4, Brunswick)

12-14-93 TEDs been holding up for a day and a half. Strict night watch kept with dragtender last night. Used spotlight and all lights out, no moon last night, very dark. No whale sighted, it would of been extremely difficult to sight anything. EW Aerial Survey Plane Reports no sightings 12/14/93

- LOGS 94-99 - no incidents, material in mud. ROT

12-15-93 digging mud and surge winds variable over 30 knots. EW 11:20 call

From Aerial Survey, NO sightings EW
12-16-93 Aerial Survey Plane Report
NO sightings 11:15 EW

12:30 sighted right whale approx 7 m. ENE of the sea buoy (saw back and V shaped spot). The approx. location is $30^{\circ} 04' N$ $81^{\circ} 13.5' W$. Chris was called - left message, and Coast Guard St Simon's was notified and given position, although the CG guy who answered (Andrews, I think), didn't seem to know much, and a security has not been issued.

14:50 whale seen again - cow/calf pair. They've moved approximately WNW in the time between 12:30 and 14:50. Approximate position of 2nd sighting: $31^{\circ} 04.5' N$ $81^{\circ} 15.2' W$.

At 14:30 the TEDS were removed from drag heads. Trea said the word from higher up is that they were not much use and took too many man-hours to keep repaired. - Rox

12-17-93 Load 121 on the way to the dump sighted two blows at 0835. Sighted near 3 TT and diving birds. about 200 yards NE of buoy 1A Red. $31^{\circ} 05' 00'' N$ $81^{\circ} 17' 00'' W$. On the way back from the dump sighted head bob in same area sighted at some distance into a glare. Ventral

Side white, throat grooves at
0915. Probable Juvenile Humpback,
not good enough sighting to confirm
species 100%. Aerial survey plane
called, radio not working in plane.
Told them were to look for whale
and sighted them circling area.
They should call this afternoon
with info. EW

16:32 Aerial Survey Plane called back; had not seen
any Eg's in our area.

12-18-93 whale survey plane
reports no sightings. EW

12-19-93 Aerial survey plane
reports no sightings. EW

15:40 Aerial Survey plane reports 3 adult/subadult right
whales within dredge MacFarland's operating area at
position $30^{\circ} 32.2' N$ and $81^{\circ} 12.2' W$.

Due to clogging of overflow
screens and mud spilling on to
decks the top 2-3' cut off. As
for as sampling this is no problem
considering samples are 100% inflow
screening. This will not affect any
samples. Though should be consulted by
capt. COE, this is also a safety matter. EW

12-20-93

11:45 Right whale spotted from survey plane and dredge - just outside channel at #3 buoy. Single animal, not very large.

(SCORE: DREDGE 4, aerial survey 2)

— 1830 Bernsmuch pilot bringing a car carrier in, moving at slow speed due to whale sighting earlier (Did say to the mate that if he saw a right whale in the harbor to take a picture of it!).

12-21-93 ship goes to anchor at 1008 for fuel.

Aerial survey plane reports no whales, 11:20 EW.

2047 leave hook to go dig. Digging new area between 1A & 2A buoys. NO INCIDENTS Corbett

12-22-93 Aerial Survey plane reports no sightings.

12-23-93 ERIC WESTERMAN

off 330, bring dredging tape back to NEP after viewing it if you want. EW

0330: ERIC WESTERMAN LEAVES, ZACH KLIVER

COMES ON BOARD AS OBSERVER @ 0800

1037 2 TH IN CHANNEL

1159 AERIAL SURVEY REPORTS NO SIGHTINGS

NO INCIDENTS: MATERIAL MUD AND SAND - Corbett

12/24/93

1115 AERIAL SURVEY TEAM REPORTS NO SIGHTINGS

NO INCIDENTS: stbd drag arm not working

12/25/93 - ICELAND GULL

1100 AERIAL SURVEY PLANE REPORTS NO SIGHTINGS

port dragarm not working; digging only with starboard now. Port dragarm fixed by load 198. digging stations 265-728. Load 189 will be inside.

12/26/93 JUV.

835 HUMPBACK SPOTTED $\frac{1}{3}$ M SE OF BOUT 1A

839-845 6-7 BLOWS, (2-3) TH AND SHRIMPEN IN CLOSE PROXIMITY.

ESTIMATED LOCAL

$31^{\circ}04.5$ N
$81^{\circ}17.2$ W

FIRST SIGHTING

850 MOVING SOUTH

855-859 APPROX $\frac{1}{2}$ M E OF BOUT 2A - HAVING MOVED N AGAIN TO OPPOSITE SIDE OF CHANNEL

922 TH (1) $\frac{1}{2}$ SW BOUT 1A

JUV.
928 HUMPBACK

$1\frac{1}{2}$ - 2 M N OF 2A

929 TH (2) $\frac{1}{2}$ NE OF 2A

1115 AERIAL SURVEY REPORTS NO WHALES SO FAR

APPROX
LAST SIGHTING

$31^{\circ}07.5$
$81^{\circ}17.0$

1222 Humpback seen again on south side of channel
(approx position: $31^{\circ} 03.9'N$ $81^{\circ} 15.2'W$) This
animal is light in color and looks emaciated

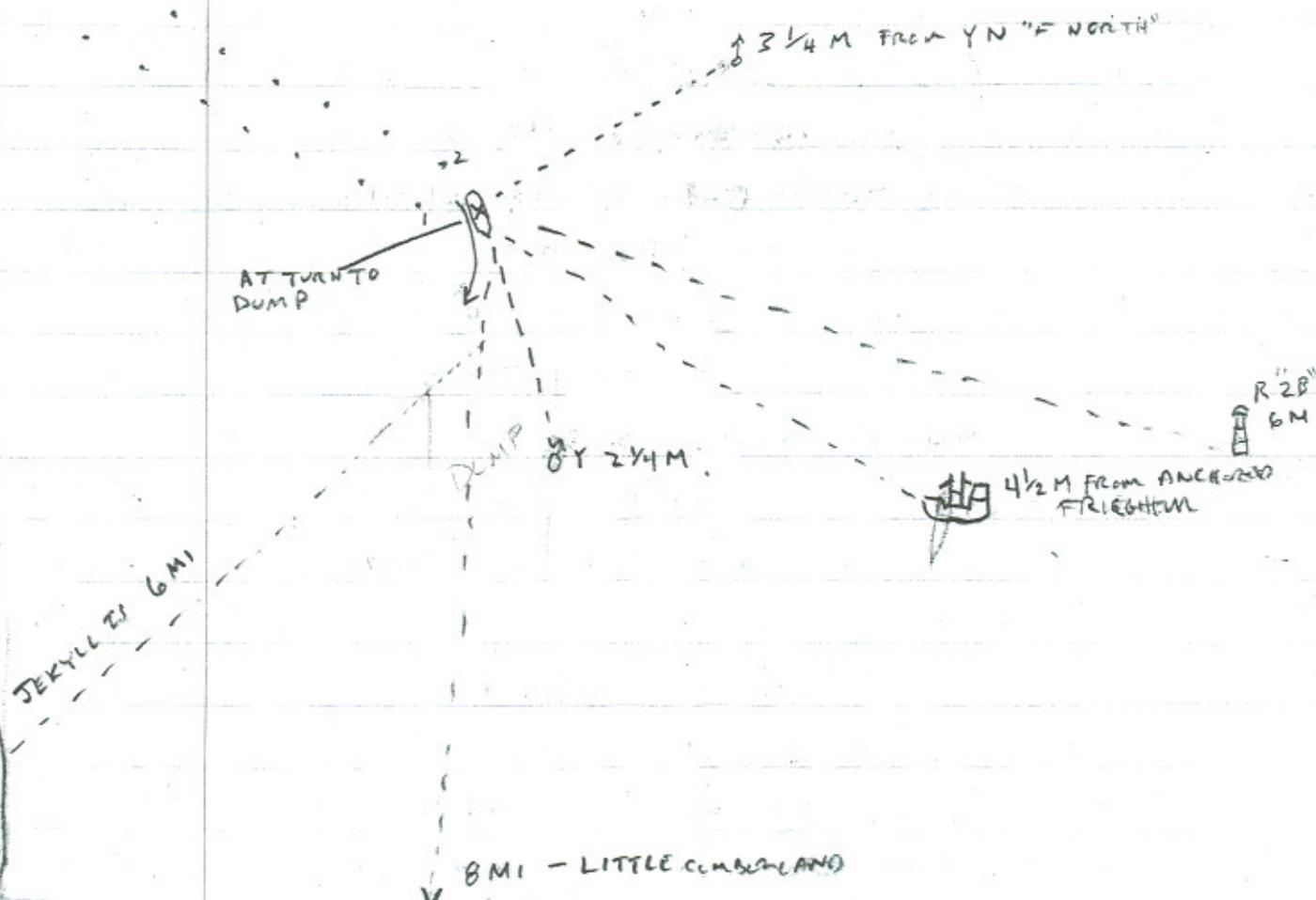
12/27/93

0742 7-10 VA dolphin $\frac{1}{2}$ M. S. OF 2A

0835 3 TH N OF CHANNEL

0850 AT THE TURN TO DUMP AND OUT 2.3 M
MANY DOLPHINS 12-30. SPECIES UNKNOWN
COULD BE EARLIER DOLPHINS OUT TO THIS AREA

BRUNSWICK
←



15:28 Aerial Survey plane reports 6 Eg at pos. $30^{\circ}45.3'N$

$81^{\circ}14.6'W$

this position is 8 tenths of a mile outside the dump area rectangle, so will not affect our speed tonight

- TT everywhere

12/30/93

0710 anchor $\frac{1}{2}$ m. NW of buoy G19 for repair work and refueling

1110: Aerial Survey reports no whale sightings

② 1230: weigh anchor and start dredging

12/31/93

0830 2 TT IN CHANNEL

- 1142 Aerial Survey calls to report no sightings

1/1/94

0930 2 TT NEAR BUOY 65

1100 AERIAL SURVEY REPORTS NO SIGHTINGS YET.

1140 - Aerial Survey calls back and reports no sightings

- Fog and rain squalls thru PM

Loads 229. — 235 no incidents.

This observer is out here! — Corbett

THIS POINT

1/2/94 @ CORBETT OFF DOLEY ON

AIRIAL SURVEY REPORTS NO SIGHTINGS IN AIR
ARE BUT M/C AT KAPLES BAY.

1145 Doley on watch - came aboard this
morning at ~ 0800

1522 1 T+ off STBD Bow 30 m near G
bay #5

1532 2 T+ 10 m off STBD Bow near G bay 5
loads

1/3/94 - Hazy horizon just vis.

0746 1 T+ 3/4 M S OF BUOY "65"

0900 FOGGY VIS 1-1 1/2 M

1030 1/2 MILE OR LESS VISIBILITY

1115 1/4 MILE VISIBILITY

1130 DOLEY on watch 1/4 mile vis in Fog

1225 Thick of fog we have a shrimp out
with no return on our STBD side
we are on a star bell for the moment
1228 in the channel

1350 Still in heavy fog heading for heavy
weather forecast is for a storm

morning with 15' seas off shore coastal
flooding, thunder and lightning ahead
of fast moving front. Should make
for a fun trip w winds 30-35K

1430 Zero vis in thick Fog heading back
from dump to project area

1457 Approaching channel - dug arms over the
side

1531 Shrimp boat capt. has given the
crew 20 lb of shrimp for helping
him into the channel. Still 0
vis in thick Fog.

1608 Shrimper gone against starting to rain

1623 Clearing skys overhead Still thick of Fog

1714 Dumping clear skys fog backing off over 1/2
mile vis

1743 started load # 252 clearing up the
edges

2319 Still dredging on the same cut,

1/3/94 cont.

It takes quite an effort to get the channel completely dredged.

2324 The front blew through about 1900 winds now are ~ 25 kt, SW Skys clear 52° H2O 51°

2350 Duley off watch

1/4/94

0700 SW WIND 25-40 KT, 2-4' SEA,

NEG COND.: LOTS OF WHITE CAPS

POSITIVE COND.: CLEAR, CRISP, VISIBILITY

EXCELLENT AS NO SUN.

0820 GLAUCOUS GULL

1000 HAVE BEEN IN CUT SINCE DAWN, WIND GUSTING TO 40-45 KT, 3-5' SEA

1130 DULEY on watch

1234 STBD side dredge again giving problems bad rings or something only using port side

1701 Zack going off to drive to van
up to Morehead City. We are
departing for there sometime this
we.

1727 Last out of Burnside Channel

1822 At the dump when we finish
here we leave for Morehead City
Weather - Skys overcast but clearing
air Temp 50° winds west at 16 knots → seas
2-4 feet 51° H₂O tide is coming

1/5/94

0700 on watch 39 miles off Cape
Romaine S Carolina clear Skys
42° winds 14 knots out of the west
Seastate 4

0733 Common loon

0746 32 37 64

78 40 75 Small unidentified dolphin
bow riding

11/17
0755 5 more unidentified dolphins

32 38 50

78 39 35

1030 winds increasing 25 knots still out
of the ^Nwest sea state 5 many gannets
5 common loons no other identifications
yet. 5 large tanker ships

1102 9 spotted dolphins bow riding

1306 5 unidentified dolphins 33 12 79
77 45 10

1523 Seas laced down some, sky
clear temp 47° winds NW at 19 knots
Sea state 3

1538 2 spotted dolphins 35 29 97
77 13 13

SUMMARY

12-5

NO ID

- 1310 spout 1.2-1.5 mile from dredge dump run
1/2 mile SW of green buoy # 3
- 1503 4 calf spouts + back. < 1/4 mile NE
of red buoy # 2

12-16

1230 Eg 2 mile ENE of sea buoy

~ 30° 04' N 81° 13.5' W.

1450 Eg & calf moved WNW

~ 30° 04.5' N 81° 15.2' W

12-17

associated w/ 3 TT's birds.

0835 2 blows. 200 yds NE of red buoy 1A

~ 31° 05' 00" N 81° 17' 00" W

0915 saw animal probably juv. humpback.
not 100% ID.

12-12

1145 Eg spotted at #3 buoy.

12-26

0835 juv. humpback 1/3 M SE of buoy 1A

0839-0845 6-7 blows ~~(Eg)~~ assoc w/ 2-3

TT's
~ 31° 04.5' N 81° 17.2' W

0850 moving S

0855 1/2 Mile E of buoy 2A (moved N to other
side channel)

page 8 is missing.

0928 juv. hump. 1 1/2 - 2 Mile N of ZA
31° 07.5 81° 17.0

1222 humpback seen on south side channel
~~light~~ 31° 03.9' N 81° 15.2' W
light in color looks emaciated.

T.H.

12/17 3

12/23 2

12/24 1
 2

12/27 7-10 UNID.

3

12-30 UNID.

12/29 ~~2~~ loads!

12/31 2

1/1 2

1/2 1, 2

1/3 1

1000 25 SHRIMP BOATS WITHIN SIGHT

1125 AERIAL SURVEY REPORTED NO RIGHTS SIGHTED YET

1138 3 TT BETWEEN G5 AND G3

12/28/93

0718 PERFECT WHALE SIGHTING CONDITIONS (0-WIND, 0-SEA, 58°) POSSIBLE TO SEE WHALE WITHIN 3-4 M IF NOT MORE. 26 SHRIMP BOATS TO THE N OF CHANNEL.

0710-0735 20-30° TT ON HORIZON AND N/NE CHANNEL ON THE WAY TO AND FROM DUMP

0800 1 RIGHT WHALE SPOTTED 3-4 M SE OF BOUY R3 MOVING W MAKING SHORT DIVES OF 3-4 MINUTES.

0820 JUST RIGHT OF PIECE OF LITTLE CUMBERLAND ISLAND STICKING FARTHEST OUT TO SEA

0830. MOVING W AND CLOSER TO CHANNEL. APPROX 2 1/2 M S OF EAGLE I DIRECTLY ON BEAM. MATE INFORMED COAST GUARD. APPROX LOCAL
31.03° N
81.19.5° W

RESIGHTED SAME LOCAL AT 0840 & 0848 AT APPROX LITTLE MORE THAN 1/2 DISTANCE TO SHRIMP BOAT. 4 MILES AWAY.

12/28/93 CONT

0855 LAST SIGHTING OF RIGHT WHALE

0950 LOTS OF T+ ALL AROUND ZS - 7S

1102 3 T+ IN CHANNEL

12:20 right whale seen again @ approx. $31^{\circ} 01.5'N$, $81^{\circ} 20'SW$.
moving in a SW direction - spending a lot of time at
the surface.

1515 Aerial survey plane reports wh/c at $30^{\circ} 49.7$

Fails to find our whale $81^{\circ} 09.2$

16:50 Survey plane returns and finally
sees whale which is 1.5 m SW of green #3
buoy.

20:00 Hrs whale calls Brunswick Pilot outbound to
advise of right whale sighting and he says
he's already operating at reduced speed.

0140 - 0330 SPENT ON BOW WATCHING FOR WHALES

AS MOON 95% FULL \uparrow AT DUSK EG IS 60YDS FROM #5 BUOY.

0230 1 T+

12/29/93

0625-0715 BOW WATCH FOR WHALES

0815 VISIBILITY TO N $1\frac{1}{2}$ M, S APPROX 3M,

SUN LOW IN E ALLOWING FOR VIEW TO HORIZON

1015 SUN UP VISI BECOMING BETTER

1020 5 T+ SEEN IN AND AROUND CHANNEL

1115 2 T+ TO THE N, AERIAL SURVEY JUST BEGINS

1128 1 T+ S OF CHANNEL